

ABSTRACT OF THE DISCLOSURE

In a grinding machine grinding a workpiece W by a grinding wheel G to supply coolant to one of a grinding point P or the workpiece W by way of a relative movement between the grinding wheel W rotatably supported on a wheel slide 11 and the workpiece W supported by a work support device 17, air layer 36 flowing on a circumferential surface Gc of said grinding wheel G by blowing hydraulic jet 35 transversally from one side to the other side of the grinding wheel G along the circumferential surface Gc at an upper stream position of a rotational direction of the grinding wheel G from the grinding point P. Mist of coolant blown by the hydraulic jet 35 through a recovering port 37, 43, 53 mounted on a wheel guard 20 covering a part of the grinding wheel G.